

The Coyotelog

AF Outstanding Unit - 2000, 1985, 1979

The Monthly Newsletter of the 190th Air Refueling Wing

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History of aerial refueling: The later years - part 2

By Senior Master Sgt. Keith Fulton & 1st Lt. Chris Hill
190th Air Refueling Wing

The first aerial refueling over enemy territory occurred on July 6, 1951 when a KB-29 refueled four F-80 Shooting Stars flying a reconnaissance mission over North Korea.

Another first in 1951 was the production of the first all jet tanker. As the B-47 Stratojet bomber became operational, additional B-47s were produced as tankers. A drogue system, furnished by FRL, was mounted in the bomb bay and re-designated KB-47.

When the B-52 Stratofortress, the first true intercontinental bomber, became operational the only tanker aircraft available was the KC-97, a 4-engine propeller driven aircraft later fitted with 2 additional jet engines mounted under the wings. As the B-52 approached the KC-97 for refueling the tanker was at its top speed. The bomber, to prevent stalling, required extended flaps and the landing gear lowered for the procedure.

The increasing demands of SAC led to the procurement of the Boeing KC-135, a dedicated jet powered tanker aircraft that could match the B-52 at cruise altitude and speed. The first was delivered to the USAF at Castle AFB, CA on June 28, 1957. Under LeMay's strong encouragement, SAC built up a large KC-135 fleet, building over 600 of these new Stratotankers.

The Soviet Union also experimented with aerial refueling. Three Soviet Tupolev Tu-4 bombers, a copy of the B-29 Superfortress, were equipped as tankers and three were equipped as receivers. The Soviets experimented with a strange wingtip-to-wingtip system as well as the probe and drogue system. They abandoned the technology until the early 1960s. Even then, they never became as enthusiastic about aerial refueling as the United States had, preferring to operate smaller aircraft closer to their bases.

The KC-135 normally used the "flying boom", however, by removing the nozzle at the end of the boom and replacing it with a "drogue adapter" the tanker could refuel those aircraft requiring this system. The major drawback to this was that the systems could not be changed while airborne; maintenance personnel could only make this change on the ground. The USAF operated both the flying boom and probe and drogue systems for many years, finally phasing out the latter during the 1980's in favor of the boom. The Navy preferred the probe



A B-52F receives fuel in an early ariel refueling.

and drogue system, installing the system on smaller carrier-based aircraft.

The search and rescue mission in Vietnam required helicopters to fly greater distances to rescue downed airmen. As a result, in 1965 the Air Force equipped a CH-3 Jolly Green Giant with a refueling probe extending from the helicopter's nose. Experiments were conducted on refueling it from a U.S. Marine Corps KC-130 aircraft, a variant of the C-130 Hercules, equipped with a drogue system. The tests were successful and soon helicopters were regularly making flights deep into North Vietnam using aerial refueling to extend their range.

There were several documented "saves" involving tankers during the

[See REFUELING - Page 3](#)

Commander's
Comments - Page 2

Kansas' First
Female Colonel - Page 4

190th Holiday Party
- Page 5

Wing Commander's Vision : People, Readiness and Organization

By Col. Gregg Burden
Wing Commander

I want to extend my holiday greetings and best wishes to everyone during this joyous time of year. This organization has a lot to be thankful for and I hope that each and every one of you takes time out of your busy schedule to enjoy this holiday season with family and friends. I would also like to thank everyone for their love and support and pray for all the deployed men and women of this great country who are upholding our precious rights and freedoms so that we can celebrate and enjoy this holiday season here at home.

Since assuming command of this great unit I haven't had the opportunity to address everyone on what my vision is for the future of this organization. My hope is to continue the successful foundation that is so firmly established and move this unit toward an even brighter future.

My vision for the future is simple:

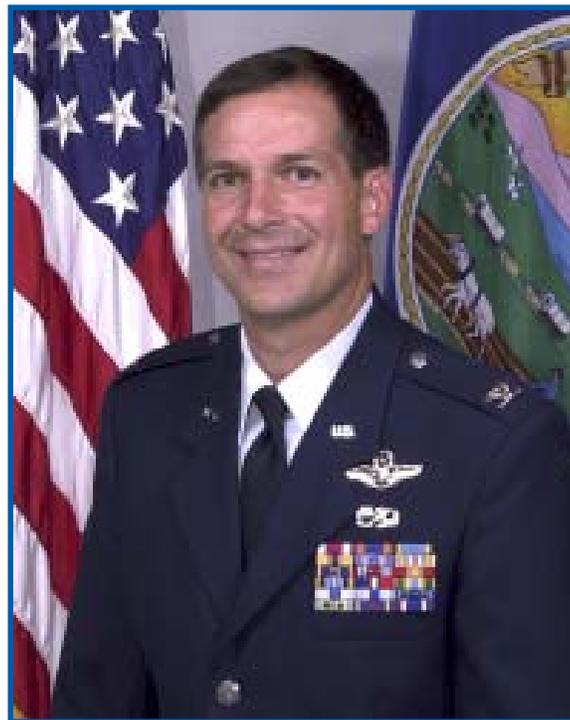
1. People. My job is to take care of all of you so you can successfully do your job. I plan on giving you 100 percent but I also expect 100 percent in return. The 190th has the best and most talented workforce in the Air National Guard and I expect us to maintain and improve the quality product that we provide.

2. Mission and Readiness. This organization is going to be challenged in the near future testing our ability to accomplish

our mission. We will be inspected on our AEF rotation this winter, will have a demanding deployed IGX inspection in the summer, a health services inspection and aircrew standardization and evaluation in the fall, and a SIOP and UCI inspection early in 2005. We must be prepared. We must start planning and training smartly and gearing up toward these future events.

3. Organization. My job is to make the 190th Air Refueling Wing a viable organization now as well as ensuring that it will continue to be a viable organization 25 years from now. In order to ensure our future we must be a strong partner in our community, a leader in the state, and a force to be counted on by the Air Force and our nation.

In addition to the many challenges confronting us over the next 18 months there will also be numerous external events that will impact this organization. First, the war on terror around the world continues. At the moment our participation is small, but another significant event might require large numbers of us to participate. The upcoming Base Realignment and Closure (BRAC) committee starts this spring and could bring about force structure changes in the state of Kansas. Will this affect the 190th? I don't know. I do



Col. Gregg Burden
190th ARW Commander

know that we have a tremendous infrastructure, great facilities, new runway and taxiways, new fuel farm, and will have a new ramp in the near future. I firmly believe that we are in a strong position going into this BRAC.

The next 18 months are critical for this organization and I'm asking for everyone's patience and support through this challenging period. I need all of you to start planning ahead and making yourselves available for required training and deployments. Keep a positive attitude and let's be proactive and not reactive.

With everyone's help, this organization has a bright future.

Have a Safe and Happy Holiday Season!

LOOK

REFUELING - from page 1

Vietnam conflict. On some missions the KC-135 literally dragging a battle damaged fighter home.

The following is one story of a unique save. During Vietnam USAF KC-135's were only scheduled to refuel Air Force receivers. The Navy would take care of their own refueling requirements except in cases emergency. When such an emergency existed and if a 135 was close with a drogue installed the crew would respond. On May 31, 1967, during Operation Young Tiger, a KC-135 crew commanded by Maj. John H. Casteel saved six Navy aircraft with such an unscheduled refueling. Maj. Casteel's original mission was to refuel two F-104 Starfighters, using the drogue adapter attached to the end of the boom that the probe-equipped F-104s required. After completing the F-104 refueling they were informed of an emergency involving two Navy KA-3 "Whale" tanker aircraft, which also required the drogue.

With the F-104s acting as escorts for MIG coverage the KC-135 headed north directly to the Navy aircraft. Immediately after rendezvousing the first Whale hooked up, it had only three minutes' usable fuel. After transferring 2,300 pounds, Casteel's crew started to refuel the second Whale just as two Navy F-8 Crusaders arrived, also short of fuel. One of the fighters had only 300 pounds remaining and hooked up with

the second Whale, even as it was taking on fuel from the KC-135, initiating history's first tri-level refueling. As this was going on, the first KA-3 shared its fuel with the second fighter. It then moved into position to refuel again from the KC-135.

Believing they were finished for the day; completing their scheduled refueling with the F-104s and saving 4 Navy aircraft, Casteel and his crew were about to turn toward home when they were notified again of more Navy aircraft short of fuel. Two F-4 Phantoms arrived and neither had sufficient fuel to return to their carrier. Already low on fuel itself the KC-135 turned south refueling the two F-4s enroute. After landing the KC-135 had less than 10,000 pounds of fuel remaining for its own use.

Maj. Casteel's crew, including copilot, Capt. Richard L. Trail, navigator, Capt. Dean L. Hoar, and boom operator, MSgt. Nathan C. Campbell initially believed they were going to receive a disciplinary action, possibly a court martial. After several days of investigations and interviews the Air Force awarded Casteel's crew with the Distinguished Flying Cross. The crew subsequently was awarded the MacKay Trophy. (The MacKay Trophy, established in 1911 by Clarence H. MacKay, head of the Postal Telegraph-Commercial Cable Co, is awarded yearly by the USAF for the most meritorious flight of the year by an Air Force person(s) or organization.)

With the introduction of the KC-10 Extender tanker in the early 1980s, the Air Force incorporated a number of new

features, including both a boom and the hose and drogue systems, allowing it to refuel both Air Force aircraft using the boom and Navy, Marine, and other allied aircraft using the drogue system. As for the development of the new KC-767, advancements in technology will see the boom operator's position removed from the rear of the tanker and placed up front directly behind the pilots using computerized monitors to view the receiver and make the contact.

Despite all the technological advances, commercial aircraft designers never adopted aerial refueling. They preferred to build aircraft with large internal fuel tanks because this was cheaper than operating a dedicated fleet of aircraft that simply served as flying gas tanks. Aerial refueling is now exclusively a military operation, despite Sir Alan Cobham's vision of using it for commercial aircraft.

A little closer to home, this year marks the 25th anniversary of our unit's current mission with the KC-135. May 25, 1978 was the first refueling mission of the newly formed 190th Air Refueling Group, formally the 190th Defense Systems Evaluation Group flying the B-57 Canberra. Colonel William Mahler (190th commander), Lt. Col. Brink, Lt. Col. Jones, Capt. Kevin Sweeney, Lt. Dennis Murray, Tech. Sgt. Dan Herklotz, and Tech. Sgt. Mike Madden were the crewmembers on board for the inaugural mission as they refueled an E-3A Sentry from Tinker AFB, OK. Our unit was one of first thirteen Air National Guard units to convert to the KC-135A Stratotanker in 1978. The 135 has seen several upgrades since then including upgraded engines, autopilot, inertial navigation systems, air refueling flood light, boom interphone system, and the Pacer CRAG glass cockpit to name a few.



KB-47s refueling with the hose and drogue system

Information for this article was obtained from the book "Passing Gas: The History of Inflight Refueling" by Major Vernon B. Byrd, a retired KC-135 pilot; and an Internet site U.S. Centennial of Flight Commission by Dwayne A. Day and the 190th ARW History office.

Kansas Guard's first female colonel shares thoughts

By Tech Sgt. Greg Burnetta
190th Public Affairs

A Coyote has the distinction of being the first female colonel in the Kansas Air and / or Army National Guard.

Upon approaching the second anniversary of her current duty assignment, she shared her thoughts about that distinction and the road she followed to obtain it.

For nearly two years, Col. Deborah S. Rose has served as the 190 Air Refueling Wing's Mission Support Group Commander. This is a field grade, line officer command position; quite different from the nurse corps slot she was commissioned in under the Nurse Professional Corps 20 years ago.

"I always wanted to be in the Air Force," she said, "Even before becoming a registered nurse."

"I wanted to join the Air Force when I was 18," she said, "but I married an airmen instead," referring to her husband, retired Kansas Air National Guard Colonel Joe Rose, who was an active duty Air Force member stationed here (when Forbes was an active duty Air Force base in the 1970's).

After getting married and starting her family, she entered Washburn University, Topeka, Kansas, where she was awarded a bachelors degree in nursing in May 1982.

True to her desire to serve in the Air Force, she joined the Kansas Air Guard in 1983. "I joined the 184th Tactical Fighter Group, in Wichita, because the 190th didn't have an opening for me then," she said.

She was commissioned a Lieutenant in the Professional (nurse) Corps, and served as the Officer-In-Charge of the Immunization Clinic at McConnell Air National Guard Base in Wichita from 1983 through 1985.

In December of 1985 she transferred to the 190th and served as the OIC of the Immunization Clinic for nearly three years.

She initially served in the Air Guard as a traditional officer while being a mother, wife, and career nurse for the Veterans Administration hospital in Topeka.

She pursued her professional civilian education by earning a master's degree in nursing from Wichita State University in 1989.

She served in a series of civilian nursing assignments, each one having progressively more difficult responsibilities while working for the VA, cumulating in being the program coordinator for a computerized Order/Entry/Results Reporting system at the VA medical center.

That job included assessing physician computer literacy levels, and overcoming their resistance to use computers.

She continued her military education by successfully completing a series of major professional development schools. These schools include the United States Marine Corps Command and Staff College, the Air Command and Staff College, and the Air War College.

She has attended numerous other schools and training seminars covering many diverse topics ranging from management and leadership skills to becoming certified in hazardous materials operations in concert with the governor's appointment to the Kansas Bioterrorism Coordinating Committee.

After serving her first 11 Air Guard years as a nurse, Colonel Terry Fritz, currently the 190 ARW Vice Commander, and then – Lt. Col., Support Group Commander, asked her to consider a complete military career change. One that would take her out of the professional nurse corps into becoming a line officer taking command of the Services Flight.

She did transition into becoming a line officer and was appointed Services Flight Commander approximately five months before a scheduled Operations Readiness Inspection.

The ORI went well. The inspector said, "The Services Flight did an excellent job," she said.

It is the enlisted members who perform their jobs in such admirable ways that get their officers recognition, she said. "That's what leadership is all about, bringing people together as a team."

She remained in that assignment as a traditional member until 1996.

In 1996 she left her civilian nursing career at the VA and became a full time technician at the 190 ARW.

Since then she has served in progressively more responsible assignments, bringing her to her current assignment commanding the Mission Support Group, which led directly to her being promoted to Colonel in April 2002.

The only other female Colonel in the Kansas National Guard is a female medical doctor member of the professional corps. Col. Rose is the first and the only female line officer Colonel.

When speaking about being the first female Colonel in the Kansas National Guard, she modestly said, "I have been very fortunate in my career to be in the right place at the right time." "Some of it was timing, and some of it was being prepared." I always wanted to be eligible for promotional opportunities, she said, when referring to the importance of continuing education and training.

So, where does she go from here? What is her goal now? "To be the first female brigadier general in the Kansas National Guard," she said. "If you don't have a goal you'll never achieve it," she said.



Col. Deborah Rose is the first female Kansas Guard officer to rise to the rank of Colonel

COMING SOON

190th ARW: Upcoming events

By Tonya VanSickle

Family Readiness Coordinator

Hello everyone. Things have been happening quickly at Family Readiness right now. We are planning the big Holiday Party for Saturday of the December UTA.

In addition to Family Readiness there are also a number of events planned over the next year that that you might be interested in. Here are just a few highlights of things coming next year.

- December 6: Commanders Call, Holiday Party (Building 662)
- January 11: VAC Meeting, Headquarters Building (1:00 p.m.)
- February UTA: Commanders Call
- February 27-29: State Family Readiness Workshop, Holiday Inn, Wichita Kansas
- March 6: Dining Out (Capital Plaza Hotel)
- April 26: 190th Volunteer Awards Dinner
- May: Clergy Day
- June 5: Tentative Family Day Scheduled, Commanders Call, Operation KUDOS

If you have any questions about any of these events, or general questions about volunteering, please call the Family Readiness office at (785)-861-4940.

The goal of Family Readiness for next year is to schedule a number of informational trainings, so please be on the lookout for opportunities to learn about credit and mortgage issues, speak to an ESGR representative, or how to manage stress in your life. I look forward to seeing you at the Holiday Party.

190th Holiday Party 2003

The 2003 190th ARW holiday party will take place on Saturday, December 6.

The events begin at 1000 with a Wing Commander's Call. Family members are invited to attend. Following the Commander's call lunch will be served in hanger 662 beginning at 1100 until 1300 (cost for family members will be \$3.25).

Kids and adults alike will have a full day of activities in the afternoon. Activities include pictures with Santa and the WB Frog.

Please enjoy the day, but as this is a duty day, uniforms are required throughout the day.



Games:
1300 - 1700

Pictures with Santa:
1400 -1600



Meet the WB Frog:
1300 -1500



Senior Airman Jodi L. Rice



Organization: 190th Security Forces Squadron

Job title: Security Forces Specialist

Main Responsibilities: Report, respond and neutralize any threats that occur.

Civilian Job: Topeka Correctional Facility

Education: Class of 99 at Washburn Rural High School

Military Experience: Enlisted March 2001; went to Al Kharj Saudi Arabia Sep-Dec 2002

Goals and Ambitions: Take advantage of the extra training to advance my knowledge and confidence in the military and my civilian job.

Hobbies and Activities: Watching movies, spending time with friends, family and my Labrador Retriever.

Most Memorable 190th moment: Deploying to Saudi Arabia and learning how different other countries cultures are.

Achievements: Distinguished graduate in Technical School.

Coyote Comments

What do you give thanks for this holiday season?



SRA Mitzi Merkel
Logistics Readiness Squadron

"I would like to give thanks for my family, the troops and friends I have in Iraq and the whole military."



A1C Josh Anderson
Maintenance

"I would like to give thanks for my wife and my son. And for having a home and a great job here at the 190th."



TSgt Chris Fidler-Young
Logistics Readiness Squadron

"Definitely for my family and our health. I'm also thankful for our troops overseas and that we live in a free country."



SSgt Robert Morse
Logistics Maintenance

"I give thanks for my family & new baby daughter and for having a very supportive wife."

Promotions

A1C

Jerreme J. Camper, Stu.Flt
Gregory C. Bender, CE



SrA

Eric S. Stanley, Maint
Matthew M. Madinger, Maint
Sean T. Greenlee, AMS
Sarah R. McAndrew, SFS
Christopher A. Overfelt, MOF
Christopher T. Hawkins, SFS
Jeremy T. Armstrong,
Weather



SSgt

Brian M. Deters, Maint
Brenda A. Wockenfuss, MOF
Michael D. Bieberle, LRS
Jorge I. Arvelo, Wing HQ
Jason C. Mullen, Maint
Samuel L. Bieber, 117th ARS
Robert M. McDaniel, AMS



MSgt

Marvin M. Stadler, Maint



SMSgt

Wade A. Durkes, LRS



CMSgt

Teresa L. Blanchard, MSF
Robert F. Wilhelm, Maint Gp



Capt

Marcus D. Adinolfi, AMS



**Chief Roger Wilson
Retirement
Ceremony**

There will be a retirement Ceremony for State Command Chief Master Sgt. Roger Wilson on 7 December 2003 at 1500 in the Coyote Cafe.

TOP 3 COUNCIL

Unit News / Vacancies



**Public Affairs
Officer
Vacancy**

The 190th ARW has a Traditional Public Affairs Officer vacancy, AFSC 35P3 (no special requirements).

If you are interested, submit your package to 190 MSF/DPMA, MSgt. Janet Smith by close of business on 11 January 2004.

Officer Package consists of:
Resume

College Transcripts (4-year degree)
3 letters of character reference
AFOQT scores

Record review rip (if currently in military)
DD 214 or NGB 22 (if prior service)

If you have an officer package currently on file at 190 MSF/DPMA, please ensure that it is accurate and up to date.

Faxed packages will be accepted. Fax Number: (785) 861-4491

**Top Achievers for 4th Quarter
Maintenance Group**

Gregory Wadsworth 2AX7X 91%
Top Grad from Tech School.
Demonstration of strong initiative, a positive attitude, and outstanding results through hard work.

(Fewer than 10% are selected)
Casey Lang - Aerospace Maintenance Apprentice Course 95%
Michael Weaver - Aerospace Maintenance Apprentice Course 98%

**First Sgt Vacancy
Logistics Readiness
Squadron**



Submit application materials to Maj. John Hutter by COB 5 January 2004. Must be a Master Sgt. or promotable Tech. Sgt.

Coyote Cafe Menu

Saturday December 6

Catered Meal

Sunday December 7

Chicken or Veal
parmesan
Alfredo noodles
Mashed potatoes/gravy
Green beans
Glazed carrots
Garlic Bread
Assorted bread
Salad Bar
Hot bar/Potato bar
Chili/cheese

Dessert
Hotel for December
Holidome

Chapel Hours

Protestant: 0800 - 0830
Latter Day Saints: 1100-1130
Catholic: 1345 - 1415

The Chaplain's Office is located on the 3rd floor of Hangar 662.

Holiday Party, 6 Dec 2003

10:00am-6:00pm

10:00am:
Commanders Call
for Wing and Family Members

**Lunch immediately follows
Commanders Call**

Family Events -- 1:00-6:00pm:

Open House tours
KC-135 on display
Games for adults & kids
Arts & crafts
Decorate Parade Truck
Snacks, drinks and fun
for everyone of all ages.

**190th
Christmas Ornaments**



\$15.00 each
Contact Tonya
VanSickle in
Family Readiness
to purchase

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THE COYOTE LOG
190TH ARW
PUBLIC AFFAIRS
FORBES FIELD (ANG)
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